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**Ревізія зразків гастероїдних грибів з роду *Tulostoma* Pers. з гербарію CWU (Мyc),
заснована на результатах молекулярного аналізу**

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**Revision of specimens of gasteroid fungi *Tulostoma* Pers. from CWU (Myc) herbarium,
based on the results of molecular analysis**

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Herbarium specimens of *Tulostoma subsquamosum*, *T. niveum*, and *T. kotlabae*, obtained from the territory of the Kreidova Flora Reserve were re-identified with the use of molecular methods. Two specimens were re-identified as *T. simulans* and one – *T. melanocyclum*. This is the first report of *T. simulans* for Ukraine.

Gasteroid fungi are a polyphyletic group within division *Basidiomycota* R.T. Moore, which are characterized by closed fruiting bodies and the absence of mechanisms of active spore distribution (Reijnders, 2000).

Tulostoma Pers., is a genus in this group, members of which are characterized by globose or subglobose spore-sac on a stem (Wright, 1987). On the territory of Ukraine members of genus *Tulostoma* were known since the 1842 (Léveillé, 1842). One of the most comprehensive studies on gasteroid fungi of Ukraine was performed by Syvokon (Bielaya) in her thesis «Gasteroid fungi of left-bank Ukraine», in which 7 species of *Tulostoma* were reported, and 3 of them: *T. subsquamosum* Long & S. Ahmad, *T. niveum* Kers, and *T. kotlabae* Pouzar were new to the country (Bielaya, 2011). Specimens of all of the three species were collected from the herbaceous meadow from the territory of the Ukrainian Steppe Nature Reserve, Kreidova Flora branch, Lyman district, Donetsk region and now kept in CWU (Myc) herbarium under numbers GB00121, GB00125, and GB00129 representatively.

Gasteroid fungi are known for great variability of morphological features within species, what makes their identification with the use of traditional methods problematic, so the aforementioned specimens were revised with the use of molecular analysis of the internal transcribed spacer (ITS). According to results, specimen GB00121 was re-identified as *T. melanocyclum* Bres., meanwhile GB00125 and GB00129 were re-identified as *T. simulans* Lloyd, which is also appears to be new species for the territory of Ukraine. Obtained sequences were submitted to GenBank with the following accession numbers: OK077565, OK077765, OK078016.

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